

A Fibrin-Enriched and tPA-Sensitive Photothrombotic Stroke Model

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Materials

Name	Company	Catalog Number	Comments
2,3,5-triphenyltetrazolium chloride (TTC)	Sigma	T8877	infarct
4-0 Nylon monofilament suture	LOOK	766B	surgical supplies
5-0 silk suture	Harvard Apparatus	624143	surgical supplies
543nm laser beam	Melles Griot	25-LGP-193-249	photothrombosis
adult male mice	Charles River	C57BL/6	10~14 weeks old (22~30 g)
Anesthesia bar for mouse adaptor	machine shop, UVA		surgical setup
Avertin (2, 2, 2-Tribromoethanol)	Sigma	T48402	euthanasia
Dental drill	Dentamerica	Rotex 782	surgical setup
Digital microscope	Dino-Lite	AM2111	brain imaging
Dissecting microscope	Olympus	SZ40	surgical setup
Fine curved forceps (serrated)	FST	11370-31	surgical instrument
Fine curved forceps (smooth)	FST	11373-12	surgical instrument
goat anti-rabbit Alexa Fluor 488	Invitrogen	A11008	Immunohistochemistry
Halsted-Mosquito hemostats	FST	13008-12	surgical instrument
Heat pump with warming pad	Gaymar	TP700	surgical setup
infusion pump	KD Scientific	200	thrombolytic treatment
Insulin syringe with 31G needle	BD	328291	photothrombosis
Ketamine	CCM, UVA		anesthesia
Laser protective google 532nm	Thorlabs	LG3	photothrombosis
Ketoprofen	CCM, UVA		NSAID analgesia
micro needle holders	FST	12060-01	surgical instrument
micro scissors	FST	15000-03	surgical instrument
MoorFLPI-2 blood flow imager	Moor	780-nm laser source	Laser Speckle Contrast Imaging
Mouse adaptor	RWD	68014	surgical setup
Puralube Vet ointment	Fisher	NC0138063	eye dryness prevention
Retractor tips	Kent Scientific	Surgi-5014-2	surgical setup
Rose Bengal	Sigma	198250	photothrombosis

Thrombin	Sigma	T7513	photothrombosis
Tissue glue	Abbott Laboratories	NC9855218	surgical supplies
tPA	Genetech	Cathflo activase 2mg	thrombolytic treatment
Vibratome	Stoelting	51425	TTC infarct
Xylazine	CCM, UVA		anesthesia